

FORM PTO-1390
(REV. 9-2001)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

16674-7

U.S. APPLICATION NO. (If known, see 37 CFR 1.5

10/019518

INTERNATIONAL APPLICATION NO.
PCT/IB00/00913

INTERNATIONAL FILING DATE
6 July 2000

PRIORITY DATE CLAIMED
9 July 1999

TITLE OF INVENTION IMPULSE PURCHASE SYSTEM FOR PAY TELEVISION

APPLICANT(S) FOR DO/EO/US Andre KUDELSKI; Marco SASSELLI;
Philippe STRANSKY; Laurent LAFFELY

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A FIRST preliminary amendment.
14. ☐ A SECOND or SUBSEQUENT preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☒ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☒ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: International Search Report
International Preliminary Examination Report

U.S. APPLICATION NO (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.	
10/019518		CT/IB00/00913	
		ATTORNEY'S DOCKET NUMBER 16674-7	

<p>21. <input checked="" type="checkbox"/> The following fees are submitted:</p> <p>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):</p> <p>Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. \$1040.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$890.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$740.00</p> <p>International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$710.00</p> <p>International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00</p> <p style="text-align: center;">ENTER APPROPRIATE BASIC FEE AMOUNT =</p> <p>Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> <th style="width: 20%;">\$</th> </tr> <tr> <td>Total claims</td> <td>4 - 20 =</td> <td>0</td> <td>x \$18.00</td> <td>\$ 0</td> </tr> <tr> <td>Independent claims</td> <td>1 - 3 =</td> <td>10</td> <td>x \$84.00</td> <td>\$ 0</td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$280.00</td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 890</td> </tr> <tr> <td colspan="4"> <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. </td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL =</td> <td>\$ 890</td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL NATIONAL FEE =</td> <td>\$ 890</td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL FEES ENCLOSED =</td> <td>\$ 890</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: center;">Amount to be refunded:</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: center;">charged:</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	Total claims	4 - 20 =	0	x \$18.00	\$ 0	Independent claims	1 - 3 =	10	x \$84.00	\$ 0	MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$280.00	TOTAL OF ABOVE CALCULATIONS =				\$ 890	<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	SUBTOTAL =				\$ 890	Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	TOTAL NATIONAL FEE =				\$ 890	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	TOTAL FEES ENCLOSED =				\$ 890					Amount to be refunded:					charged:	CALCULATIONS PTO USE ONLY
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a. ☒ A check in the amount of \$ 890 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

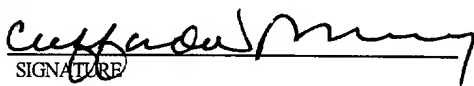
c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3030 (but not issue fees). A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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- 1 -

IMPULSE PURCHASE SYSTEM FOR PAY TELEVISION

The present invention relates to a system according to the preamble of Claim 1.

In the known systems for the choosing of a particular programme by a viewer of or listener to audiovisual transmissions, the choosing of a pay programme by a user, hereinbelow referred to as a subscriber, is performed in two ways:

1) the subscriber telephones the Subscriber Administration Centre so as to purchase a product such as a film or a filmed sports event. This procedure is being employed less and less;

2) the subscriber receives, together with the data stream transmitted for example by satellite, a programme grid presenting the offering in a schematic manner, with a view to easy choice from this grid displayed on visual means such as a cathode ray screen or a liquid crystal screen. Such a process is described for example in American patent 5,038,211.

The present state of the art consists in dispatching a data stream comprising:

- video information, in particular coded or scrambled video information;
- information required for displaying the aforesaid programme grid;
- entitlement checking messages, describing the necessary privileges for access by the subscriber to a product,
- entitlement management messages, or EMMs, intended for administering the user's profile, a particular type of entitlement management message, which is specifically intended for impulse purchasing, and is commonly referred to as IEMM in the trade.

The problem which arises relates to the total time required by the subscriber to see his purchase recorded. This time is in fact made up of:

- a) the time required to press the buttons, for example of a remote control, relating to the choice of the desired product, up to the final confirmation button such as "OK",
- b) the time required for the subscriber to receive the next IEMM.

This time required to receive the IEMM is dependent on the volume of traffic on the data stream and on the number of subscribers. Since this IEMM is a particular type of EMM, it is conveyed in an EMM broadcasting cycle. Some time, seemingly long to the subscriber, may therefore pass before the cycle in question has terminated and the impulse purchase is confirmed by the system. This time may be several minutes when the product offering is considerable. During this time, the purchaser will not be able to utilize his control and might perhaps change his mind before the product is accessible.

The present invention proposes to solve this problem by the means described in the characterizing part of claim 1.

A programme grid generally comprises, per transmission apt to form the subject of an impulse purchase, at least one transmission name, often a description of the transmission, a price for purchase by the user, and sometimes so-called "rating" information, especially in the case where the television viewer must be of a minimum age required by legislation to view or listen to the transmission. These data are tied to the presentation of the programme grid destined for the user.

By including the entitlement management message specific to the impulse purchase of the relevant transmission with the data tied to the said presentation of the grid, it is possible to circumvent the cycle time required in the prior art.

The user, having made his choice and pressed the button for confirming the impulse purchase, need wait only for the system to have finished the current cycle of broadcasting of the entitlement management messages. This results in improved convenience.

In a particular embodiment of the invention, the entitlement management message is used locally in a hardware subassembly installed at the user's premises, this hardware subassembly comprising a microprocessor in which is stored a subscriber authorizations and subscriptions profile relating to the user.

This hardware subassembly takes for example the form of a chip card reader, the chip card containing a microprocessor or chip, which can be read and decrypted by the reader by means known per se.

In a particular embodiment of the invention, the entitlement management message specific to the impulse purchase has the possibility of entailing two notifications: on the one hand that to authorize viewing, and on the other hand that to veto this authorization. This possibility affords additional flexibility in the administration of the subscriptions taken out by the users.

The invention will be better understood by virtue of the detailed description which follows and which refers to the appended drawings, in which:

- Figure 1 represents the stream of data according to the state of the art which is intended for making up the programme grid,

- Figure 2 represents the data stream according to the state of the art containing the entitlement message,

- Figure 3 represents the data stream according to the invention combining the information intended for the programme grid and the entitlement message.

Represented in Figure 1 is the stream SI known in the state of the art and comprising packets, each packet being specific to a transmission. This packet, once interpreted, defines a row in the programme grid.

A packet therefore comprises date D and time T information as well as a descriptor Des for the transmission proposed. With this packet is associated a reference Ref which will allow the system to make the link between the row selected by the user and the entitlement message EMM containing the necessary authorizations.

This EMM message is represented in Figure 2 and comprises the identifier Ref for linking the message of the SI stream to the EMM message. It contains a subscription item Msg which allows the security module (in general a chip card) to store the data required for decoding the relevant transmission.

According to the invention, Figure 3 represents the new message SI which makes it possible to form the programme grid and which comprises the textual information such as date D, time T and description of the transmission Des, as well as the entitlement message Msg.

When instructed by the user, the entitlement data Msg are immediately transferred to the security module, making it possible to profit, if the credit and authorization conditions are fulfilled, from the purchased transmission.

It should be noted that the subscription message Msg may, according to a variant of the invention, be broken down into a purchase condition part, for example the purchase price, and another purchase cancellation condition part. If for example a user who has purchased a transmission which starts in five minutes decides not to watch it, it is the cancellation condition which will be applied and which might reimburse only part of the amount depending on the policy decided by the broadcaster.

In the detailed description which will follow, the example will be taken of a plurality of encoders each receiving an analogue audio or video stream and each restoring a compressed digitized stream. Each of these compressed digitized streams enters in turn a multiplexer, commonly abbreviated MUX, which also processes a so-called EMM entitlement management message stream, this EMM stream being common to all the compressed digitized streams, several entitlement checking message streams, a so-called Service Information or SI stream, and finally a so-called PSI programme specific information stream.

The PSI stream simply provides the decoders, situated at the other end of the broadcasting channel such as a satellite, with the so-called PID packet identifier numbers, these packets being generated by the multiplexer.

Thus, by way of example, a first packet will be furnished with a PID header bearing its number, and will bear a video stream element of a transmission from Télévision Suisse Romande 1. The next, bearing another PID header, will bear for example an audio stream element from Télévision Suisse Romande 2. The third may bear behind its PID an audio stream element from Télévision Suisse Romande 1, and so on and so forth.

The PSI stream does not properly speaking contain so-called intelligible information, such as the name of the station. It merely gives the PID numbers intended for the inlet decoder, so as to provide it with an Ariane wire and allow it to reconstruct the string of packets by abutting them without error.

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It is the SI Service Information stream whose role is to transport the necessary data for filling in the programme grid. These data are, generally, so-called intelligible data. Indeed, they explicitly provide the name of the stations (such as TSR1 and TSR2 in the above examples), give a list of frequencies for all the transports, or else a list of all the transmissions, this enumeration being non limiting.

The programme grid is organized temporally. The information contained in the Service Information stream is in fact arranged as time segments. A first segment may for example occupy the time slot from midnight to 4 a.m., and the next segment another time slot beginning at 4 a.m. The programme grid sets out this information in formats referred to as descriptors. These descriptors are standardized and chronicle the name of the programme, its type (sport, information, transmission for children, etc), the start time, the duration, this list being non limiting.

The present patent application extends also to a descriptor specifically intended for receiving the entitlement management message specific to the impulse purchase of the relevant transmission. The confirmation by the user of the choice of this transmission therefore allows, subsequent to a straightforward reading of the field corresponding to this descriptor, the recording of this purchase in the system for administering the subscribers, without having to wait for the end of a cycle of entitlement management messages.

At this point the decoder transmits the information contained in the entitlement message to the chip card which will proceed to the checking of the necessary authorization criteria (of the credit for example) and will store the corresponding authorization. This authorization is treated as a subscription, that is to say it authorizes subsequent decoding of the selected transmission.

It may be seen in this example that the entitlement management message specific to the impulse purchase IEMM is coded together with Service Information and is stored in the programme grid, instead of following the cycle corresponding to the normal entitlement management messages.

In one of the forms of execution of the invention, the price of the transmission is transmitted together with the IEMM message. Thus, not only is the authorization administered through this message but so is its value, which value will be debited in

the event of a purchase from the subscriber's card. This makes it possible to adopt a pricing policy which differs depending on the type of transmission.

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CLAIMS

1. System for selecting and confirming an impulse purchase for pay television comprising the presentation to a user, by means of a display device, of a grid of programmes, and the selection by this user of a programme of his particular choice from the grid by means known per se, this choice having to be confirmed in the system by an entitlement management message (EMM), this message being specific to an impulse purchase, characterized in that the entitlement management message (EMM) specific to an impulse purchase is contained in the data (SI) tied to the presentation of the programme grid.
2. System according to Claim 1, characterized in that the entitlement management message is used locally in a hardware subassembly installed at the user's premises, this hardware subassembly comprising a security module in which is stored a subscriber authorizations and subscriptions profile relating to the user.
3. System according to Claim 1, characterized in that the entitlement management message specific to an impulse purchase may entail either the notification to authorize viewing, or that to veto this viewing authorization.
4. System according to Claim 1, characterized in that the entitlement management message (EMM) comprises conditions defining the authorization of viewing and conditions of cancellation of this authorization.

	D, H, Des	Ref	D, H, Des	Ref	D, H, Des	Ref
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Fig. 1

Ref	Pr	Msg
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Fig. 2

D, H, Des	Pr	Msg
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Fig. 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Docket No. 16674-7

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

IMPULSE PURCHASE SYSTEM FOR PAY-TELEVISION

the specification of which

- (check one) ☒ is attached hereto.
☐ was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).
☐ was filed as PCT International Application No. PCT/IB00/00913 and
 was amended under PCT Article 19 on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) on which priority is claimed:

Prior Foreign/PCT Application(s)			Priority Claimed	
1269/99	CH	9 July 1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(Application No.)	(Country/PCT)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

FOIA b 7 - DATES

Prior U.S./PCT Applications:

(U.S. Application Serial No.) (U.S. Filing Date) (Status-patented/pending/abandoned)

(PCT Application No.) (U.S. Filing Date) (U.S. Serial No. Assigned, if any) (Status-patented/pending/abandoned)

I hereby declare that all statement made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Harold R. Woodard, No. 16214; C. David Emhardt, No. 18,483; Joseph A. Naughton Jr., No. 19,814; John V. Moriarty, No. 26,207; John C. McNett, No. 25,533; Thomas Q. Henry, No. 28,309; James M. Durlacher, No. 28,840; Charles R. Reeves, No. 28,750; Vincent O. Wagner, No. 29,596; Steve Zlatos, No. 30,123; Spiro Bereveskos, No. 30,821; William F. Bahret, No. 31,087; Clifford W. Browning, No. 32,201;; R. Randall Frisk, No. 32,221; Daniel J. Lueders, No. 32,581; Michael D. Beck, No. 32,722; and Kenneth A. Gandy, No. 33,386.

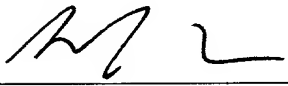
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Inventor's Signature:



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12 December 2001

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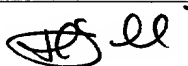
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10019513-12001
FOOTPRINT

2-00
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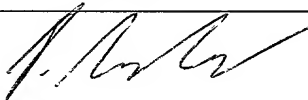
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STRANSKY Philippe

Inventor's Signature:



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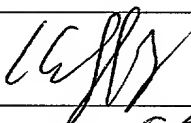
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Full name of fourth joint inventor, if any:

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Inventor's Signature:



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